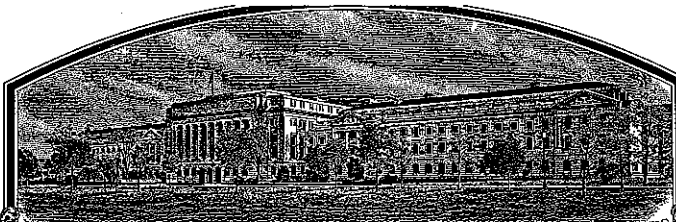


No.

200500274



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

D&H Technology Holding Company, LLC

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC SUPPLEMENTATION OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

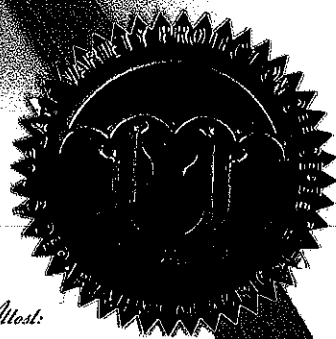
'06CX2I2R'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-ninth day of September, in the year two thousand and six.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER D&PL Technology Holding Company, LLC.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 03X179R 02X25R-001 951095-8043-001		3. VARIETY NAME <i>WAL 4/24/06 PER 8/24/06 4/28/06</i> '06CX2I2R'	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) PO Box 157 100 Main Street Scott, Mississippi 38772 USA		5. TELEPHONE (include area code) (662) 742-4141		PVPO NUMBER 200500274	
6. IF THE OWNER IS NOT A "PERSON" GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware		7. FILING DATE JUNE 13, 2005	
9. DATE OF INCORPORATION February 29, 1996		10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Delta and Pine Land Company Kelly Casavechia P.O. Box 157 Scott, MS 38772		FILING AND EXAMINATION FEE: \$ 3,652.00 DATE 6/13/05 CERTIFICATION FEE: \$ 682.00 DATE 9/12/05	
11. TELEPHONE (include area code) (662) 742-4141		12. FAX (include area code) (662) 742-3182		13. E_MAIL kelly.h.casavechia@deltaandpine.com	
14. CROP KIND (Common Name) Cotton		15. GENUS AND SPECIES NAME OF CROP Gossypium hirsutum		16. FAMILY NAME (Botanical) Malvaceae	
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse). a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)			
19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22)		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO			
21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)			
23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF OWNER <i>Don L. Keim</i>		SIGNATURE OF OWNER <i>William V. Hugie</i>			
NAME (Please print or type) Don L. Keim		NAME (Please print or type) William V. Hugie			
CAPACITY OR TITLE Cotton Breeder		DATE June 10, 2005		CAPACITY OR TITLE Vice President/Director of Research	
DATE June 10, 2005		DATE June 10, 2005			

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
(1) Identify these varieties and state all differences objectively;
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

ROUNDUP READY® cotton:

These seeds are covered under U.S. Patents 5,633,435; 5,352,605; 5,530,196; 5,188,642; 4,940,835; 5,717,084; 5,728,925; and 5,804,425.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed/lsg-sd.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U. S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (02-99) which is obsolete.

EXHIBIT A

**DELTA AND PINE LAND COMPANY'S APPLICATION FOR
03X179R '06CK212R'**

ORIGIN AND BREEDING HISTORY

1. GENEALOGY

03X179R is a selection derived from the cross 5415-1445-12 x DP 5409. The 5415-1445-12 parent was derived from a backcross involving COKER 312 LINE 1445 as a donor parent and DP 5415 as a recurrent parent. LINE 1445 was developed by the MONSANTO COMPANY using Recombinant DNA techniques to introduce a resistant version of the gene EPSPS which encodes the enzyme: 5-enolpyruvylshikimate-3-phosphate synthase (EPSPS). This modified EPSPS was originally isolated from the common soil borne microorganism *Agrobacterium sp.* strain CP4 and confers to LINE 1445 resistance or tolerance to the herbicide glyphosate [formulation of glyphosate, N (phosphonomethyl) glycine] commercialized under the trade name ROUNDUP.

Development of 03X179R occurred in the Midsouth Cotton Research program of Delta and Pine Land Company. A single F8 progeny row was bulked in 2001 to form the line designated 951095-8043-001 and was later designated 02X25R-001. After initial evaluation and increase the line was given the experimental designation 03X179R in 2003.

1. SELECTION AND MULTIPLICATION

Year	Location	Generation	Selection
1995	Scott, Ms	F0	Cross made
1995/96	Winter nursery – Puerto Rico	F1	Selfed bulk
1996	Scott, Ms	F2	Bulked
1996/97	Winter nursery – Puerto Rico	F3	Selfed bulk
1997	Scott, Ms	F4	Modified bulk
1998	Scott, Ms	F5	Single plant selected
1999	Scott, Ms	F6	Progeny row bulked
2000	Breeder's Increase - Scott, Ms	F7	Plants screened for RR and selfed
2001	Purification Increase – Scott, Ms	F8	Progeny row bulked
2002	Transgenic Increase – Scott, Ms	F9	Bulked
2003	Transgenic Increase – Scott, Ms	F10	Bulked
2003/2004	Research Increase – Costa Rica	F11	Bulked
2004	Foundation Increase – Scott, Ms/Eloy, Az	F12	Bulked
2005	Production Increase – Beltwide	F13	

Selection criteria used in the F2 through F6 generations included screening plants for resistance to glyphosate herbicide application. Selection criteria used in the F5 generation included selection for agronomic traits (plant type, plant maturity, plant height and storm resistance), lint percent and fiber quality traits (micronaire, length and strength). In the F6, lint yield was added to the selection criteria. In the F7 generation, plants were screened for presence of the 1445 gene insertion and leaf pubescence. In the F8, a single progeny row was selected on the basis of agronomic and fiber quality traits, as well as presence and homozygosity of the 1445 gene insertion.

STATEMENT ON UNIFORMITY AND STABILITY

03X179R has been observed every generation since 2001 and has shown to be uniform and stable. Less than 2% of the plants do not contain the gene insertion 1445.

EXHIBIT B**DELTA AND PINE LAND COMPANY'S APPLICATION FOR
03X179R '06CX212R'****STATEMENT OF DISTINCTNESS**

03X179R is a picker-type upland variety. The picker-type varieties as a group are distinguished from stripper varieties primarily by a more open or loose boll type. The picker-type varieties are distinguished from Acala-type varieties primarily by earlier maturity, higher heat tolerance, shorter fiber length and lower fiber strength.

03X179R is different from many other picker-type varieties in that its plants possess the 1445 gene insertion developed by the MONSANTO COMPANY. The gene insertion 1445 causes plants to be tolerant to the herbicide ROUNDUP (glyphosate).

DP 5415 RR was used as the most similar variety because it has many characteristics in common with 03X179R, including the 1445 gene insertion. Also, a selection of DP 5415 RR was used as a parent in the cross from which 03X179R was derived. In comparing 03X179R to DP 5415 RR, the most distinguishing characteristic is lint percent. 03X179R also differs from DP 5415 RR in fiber micronaire, fiber length, fiber uniformity ratio, fiber strength, fiber elongation, maturity and lint index.

Novelty of 03X179R is claimed on the following characteristics, for which there are significant differences from the comparison variety, at the 5% level of probability or less.

Trait	03X179 R	DP 5415 RR	Probability	Reference Table
Lint percent	39.19	36.58	<0.0001	1
Fiber micronaire	4.44	4.30	0.0028	1
Fiber length	1.159	1.128	<0.0001	1
Fiber uniformity ratio	83.57	82.67	<0.0001	1
Fiber strength	32.35	30.97	<0.0001	1
Fiber elongation	12.58	13.70	<0.0001	1
Maturity	81.0	73.8	0.0049	1
Lint Index	7.12	5.99	0.0323	1

Supporting Tables:

<u>Table</u>	<u>Test</u>	<u>Years</u>	<u>Locations</u>
1	Head to Head Comparisons	2003, 2004	34 tests - Beltwide
2	PVP Trial	2004	Scott. Ms
3	PVP Trial -- Final Plant Map	2004	Scott, Ms

Table 1. Head to head comparisons of 03X179R with DP 5415 RR

Year	Reg- ion	Expt	City/County	State	Lint Turnout		Micronaire		Length		Uniformity Ratio		Strength		Elongation		Plant Height		Maturity		Seed Index		Lint Index	
					03X179 R	DP 5415 RR	03X179 R	DP 5415 RR	03X179 R	DP 5415 RR	03X179 R	DP 5415 RR	03X179 R	DP 5415 RR	03X179 R	DP 5415 RR	03X179 R	DP 5415 RR	03X179 R	DP 5415 RR	03X179 R	DP 5415 RR	03X179 R	DP 5415 RR
2003	1	33HV0113	HV	SC	39.7	38.1	4.2	4.2	1.19	1.15	84.6	83.6	34.3	32.9	13.2	14.1	102.2	107.0	78.8	72.5				
2003	2	33BB0219	BB	GA	40.4	37.4	4.4	4.0	1.15	1.11	83.8	81.9	34.0	32.7	14.6	16.1	103.5	111.1						
2003	2	33TF0217	TF	GA	42.8	41.2	4.2	4.3	1.13	1.09	81.7	81.1	33.5	32.4	13.2	13.8	153.0	152.4	75.0	65.0				
2003	2	33WC0223	WC	GA	42.2	40.3	4.5	4.3	1.18	1.13	85.5	83.8	33.0	32.0	12.9	14.0	104.8	99.1						
2003	2	33WU0225	WU	GA	43.0	39.6	4.6	4.2	1.19	1.12	85.1	83.8	34.7	32.2	12.4	14.0	92.1	89.5						
2003	4	33NE0416	NE	LA	42.5	40.9	4.6	4.7	1.17	1.12	83.2	83.0	30.7	29.4	11.8	12.2	93.4	92.9						
2003	4	33PB0417	PB	MS	41.6	39.3	4.4	4.1	1.16	1.14	84.7	83.0	36.8	32.2	12.1	14.0								
2003	4	33PU0418	PU	MS	43.1	39.2	4.5	4.3	1.19	1.14	84.1	82.6	33.9	32.8	12.1	13.6								
2003	4	33WU0415	WI	LA	43.7	42.7	5.1	5.1	1.17	1.15	84.2	83.7	33.6	32.5	12.8	12.6	90.7	87.1	80.4	71.4	9.3	9.3	7.5	7.1
2003	4	34SM0401	SM	MS	42.5	40.0	4.4	4.1	1.17	1.10	84.8	82.8	33.5	31.4	12.2	13.4	94.2	101.7	75.9	76.0	9.5	8.2	7.1	5.6
2003	5	33HI0553	HI	TX	42.3	39.7	3.1	3.5	1.17	1.13	84.5	82.4	28.7	29.1	15.0	15.0	81.3	86.4	85.0	75.0				
2003	7	33CO0711	CO	AZ	43.2	38.4	5.3	5.1	1.19	1.22	85.5	84.9	35.1	33.1	13.0	14.4	64.3	78.2	92.0	80.0				
2003	7	33MA0716	MA	AZ	39.3	36.1	5.5	5.3	1.17	1.19	83.8	85.4	34.4	34.2	10.4	12.0	69.9	83.8	80.0	77.0				
2004	1	E6CPL11V01	DARLINGTON	SC	39.7	38.6	4.9	5.2	1.18	1.16	84.9	83.3	31.7	31.5										
2004	1	E7CPL11R23	BERTIE	NC	41.4	37.1	5.1	4.8	1.16	1.09	83.0	82.0	31.9	29.8										
2004	2	E4CPE101	HENRY	AL	41.0	36.6	4.0	3.6	1.13	1.11	84.8	83.9	32.4	30.9										
2004	2	E5CPL11R02	TIFTON	GA	40.4	37.2	4.1	4.0	1.18	1.13	84.7	83.3	33.4	31.2										
2004	2	E6CPL11V02	JENKINS	GA	40.5	36.6	4.6	4.4	1.20	1.16	83.5	83.3	33.1	32.5										
2004	3	E1CPE11V01	DE SOTO	MS	37.4	36.8	4.2	4.3	1.20	1.18	83.0	83.0	35.8	34.7										
2004	3	E1CPE11V02	MADISON	TN	38.9	36.6	4.6	4.4	1.15	1.12	84.0	83.0	32.3	29.7										
2004	3	W2CPE11M14	MISSISSIPPI	AR	39.7	37.1	4.4	4.1	1.20	1.19	83.0	83.0	34.0	33.0										
2004	4	44SM0443	SM	MS	43.9	41.8	5.0	4.9	1.15	1.15	84.3	83.9	30.1	28.9	10.6	12.6	125.9	121.0			9.7	9.3	7.6	6.6
2004	4	E2CPL11V01	SHARKEY	MS	38.8	37.4	4.6	4.5	1.17	1.15	83.0	83.4	32.7	32.7										
2004	4	E2CPL11V02	WASHINGTON	MS	37.1	34.7	4.2	4.2	1.17	1.12	83.5	82.3	30.1	28.2										
2004	4	W7CPE101	RAPIDES	LA	41.0	38.2	4.5	4.2	1.12	1.08	82.4	81.6	29.4	27.0										
2004	6	H1CLE102	LUBBOCK	TX	29.2	28.0	3.9	3.6	1.17	1.15	83.7	83.0	31.7	29.7										
2004	6	H1CLE103	FLOYD	TX	26.0	25.6	2.8	3.2	1.11	1.09	81.5	80.5	28.8	27.4										
2004	6	H2PLE102	DAWSON	TX	28.7	26.9	3.2	3.2	1.11	1.09	82.0	80.9	28.2	26.9										
2004	7	W1CPE101	FRESNO	CA	39.9	37.3	5.0	4.8	1.18	1.15	83.0	82.8	30.0	30.5										
2004	7	W1CPE102	KERN	CA	39.4	35.3	4.6	3.9	1.15	1.14	82.6	81.8	30.3	29.8										
2004	16	H4CPE101	NUCES	TX	39.5	34.3	5.6	5.0	1.09	1.07	82.0	81.0	30.9	29.7										
2004	16	W3CPE101	WILLIAMSON	TX	32.5	30.1	4.1	4.1	1.11	1.06	81.0	80.0	32.3	30.3										
2004	16	W4CPE102	SAN PATRICIO	TX	34.9	31.2	4.5	4.4	1.15	1.13	83.0	82.0	34.0	33.3										
2004	16	W4CPE103	WHARTON	TX	36.2	33.4	4.6	4.6	1.11	1.09	83.0	81.0	31.1	28.7										
Average					39.19	36.58	4.44	4.30	1.159	1.128	83.57	82.67	32.35	30.97	12.58	13.70	97.9	100.8	81.0	73.8	9.33	8.68	7.12	5.99
No. Comparisons					34	34	34	34	34	34	34	34	34	34	14	14	12	12	7	7	4	4	4	4
Difference					2.61		0.13		0.031		0.90		1.38		-1.13		-2.9		7.2		0.65		1.13	
F ratio - Analysis of Variance					160.699		10.424		59.438		48.964		67.511		38.738		2.115		18.855		5.585		14.330	
Probability of difference - F test					<0.0001		0.0028		<0.0001		<0.0001		<0.0001		<0.0001		0.1738		0.0049		0.0991		0.0323	

Table 2. PVP Trial - 2004 - Scott, MS

Ent	Xno	Lint				Cm to				Seed				
		Percent	Mic	Len	Ur	T1	E1	Mr	FFB	/boll	Seeds	/boll	Cotton	Lint
7	DP 494 RR	42.3	4.7	1.18	84.3	31.4	10.1	88.3	10.0	28.4	4.9	2.1	10.0	7.4
21	DP 432 RR	41.0	4.7	1.12	83.4	29.4	12.6	85.8	10.9	32.8	5.4	2.2	9.6	6.7
22	ST 4793 RR	42.7	4.8	1.10	83.7	28.4	11.8	86.8	9.1	28.6	5.3	2.3	10.7	7.9
24	03X179R	43.9	5.0	1.15	84.3	30.1	10.6	88.0	10.2	32.1	5.6	2.5	9.7	7.6
26	DP 5415 RR	41.8	4.9	1.15	83.9	28.9	12.6	86.8	9.2	29.5	4.7	1.9	9.3	6.6
	Mean	42.0	4.8	1.18	85.6	30.8	11.8	87.3	10.4	32.2	5.9	2.5	10.5	7.7
	Cv	1.4	2.8	1.6	0.8	3.1	4.5	0.7	22.3	7.5	6.3	6.4	3.5	3.7
	Lsd .05	0.7	0.2	0.02	0.8	1.1	0.6	0.7	2.9	2.8	0.4	0.2	0.4	0.3
	No. Reps	4	4	4	4	4	4	4	4	4	4	4	4	4
	Heritability	0.98	0.90	0.88	0.69	0.90	0.87	0.70	0.49	0.62	0.81	0.85	0.95	0.94
	R-squared	0.93	0.75	0.72	0.44	0.76	0.90	0.78	0.30	0.36	0.58	0.66	0.87	0.85

Table 3. PVP Trial - Scott, MS - 2004 - Plant Map Summary

Ent	Variety	Total Nodes	Nodes to FFB	Fruiting Branches	HNR	NAWF 8-Jul	Date of First Flower
7	DP 494 RR	22.5	5.8	16.8	2.22	7.9	1-Jul
21	DP 432 RR	21.3	5.9	15.5	2.34	7.7	3-Jul
22	ST 4793 RR	21.7	6.1	15.6	2.24	8.3	2-Jul
24	03X179R	22.6	5.7	16.9	2.19	8.3	3-Jul
26	DP 5415 RR	22.0	6.0	16.0	2.18	8.0	3-Jul
	Mean	21.8	5.9	16.0	2.21	8.4	3-Jul
	LSD 0.05	1.5	0.5	1.4	0.14	0.7	NS
	Std. Error	0.5	0.2	0.5	0.05	0.2	1
	P	<.0001	<.0001	<.0001	<.0001	0.000	0.827
	C.V.%	4.9	6.3	6.2	4.5	5.6	1.3
Planted 4/29/2003							
HNR = Height to Node Ratio NAWF = Node above white flower							

Explanations:	
Lint Percent	= percentage of the seed cotton that is lint, handpicked samples
Mic	= micronaire, measure of fiber fineness (high = coarse fiber)
Len	= fiber length (inches)
Ur	= uniformity ratio, proportion of uniform length fibers
T1	= fiber strength, grams per tex (high = stronger fiber)
E1	= elongation, measure of fiber elasticity, (high = more elastic)
Mr	= fiber maturity ratio
Cm to FFB	= cm to first fruiting branch
Seed/boll	= number of seeds per boll, handpicked samples
Seed cotton/boll	= weight of seedcotton per boll, handpicked samples
Lint/boll	= weight of lint per boll, handpicked samples

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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT C
(COTTON)**

**OBJECTIVE DESCRIPTION OF VARIETY
COTTON (*Gossypium* spp.)**

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
D&PL Technology Holding Corp.	03X179R 02X25R-001 951095-8043-001	'06CX2I2R'

ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY PVPO NUMBER
PO Box 157 100 Main Street Scott, MS 38772 USA	200500274

Place the appropriate data that describes the varietal characteristic of this variety in the space provided. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Royal Horticultural Society or any recognized color fan may be used to determine plant colors. Characters marked with an asterisk * indicate necessary characters to be measured.

SPECIFIC VARIETIES USED FOR COMPARISON AS CHECK VARIETIES IN THIS APPLICATION: Use standard regional check varieties which are adapted to your area. One of the comparison varieties must be the most similar variety used in Exhibit B.

Variety 1. DP 5415 RR Variety 2. _____ Variety 3. _____

***1. SPECIES:**

X *G. hirsutum* L. *G. barbadense* L.

***2. AREA(S) OF ADAPTATION:** (A = Adapted, NA = Not Adapted, NT = Not Tested)

<u> A </u> Eastern	<u> A </u> Delta	<u> A </u> Central	<u> A </u> Blacklands
<u> A </u> Plains	NT Western	<u> A </u> Arizona	<u> NT </u> San Joaquin
<u> Other (Specify): </u> _____			

3. GENERAL: Characteristics which are known to be variable but are still useful for a meaningful description of the variety.

	Application Variety	Comparison Variety 1	Comparison Variety 2	Comparison Variety 3
Plant Habit:				
Spreading, Intermediate, Compact	<u> Intermediate </u>	<u> Intermediate </u>		
Foliage:				
Sparse, Intermediate, Dense	<u> Intermediate </u>	<u> Dense </u>		
Stem Lodging:				
Lodging, Intermediate, Erect	<u> Erect </u>	<u> Erect </u>		
Fruiting Branch:				
Clustered, Short, Normal	<u> Normal </u>	<u> Normal </u>		

3. GENERAL: (continued)

200500274

Growth:

Determinate, Intermediate,
Indeterminate

Indeterminant

Intermediate

Leaf Color:

Greenish yellow, Light green,
Medium green, Dark green

Dark green

Dark green

Boll Shape: Length less than width,

Length equal to width,

Length more than width

Length>width

Length>width

Boll Breadth: Broadest at base,

Broadest at middle

Broadest at middle

Broadest at middle

*4. MATURITY: (50 % Open bolls; Preferred method; Describe method if different method was used.)

% open bolls rating taken on a given date before harvest

% open bolls

81.0

73.8

5. PLANT:

Cm to 1st Fruiting Branch:

(from cotyledonary node)

10.2

9.2

No. of Nodes to 1st Fruiting Branch:

(excluding cotyledonary node)

5.7

6.0

Mature Plant Height cm:

(from cotyledonary node to terminal)

97.9

100.8

*6. LEAF: Upper most, fully expanded leaf.

Type: Normal, Sub Okra,

Okra, Super Okra

Normal

Normal

Pubescence: Absent, Sparse,

Medium, Dense OR Trichomes/cm²

(Bottom surface excluding veins)

Sparse

Sparse

Nectaries: Present or Absent

Present

Present

*7. STEM PUBESCENCE:

Glabrous, Intermediate, Hairy

Intermediate

Intermediate

*8. GLANDS: (Gossypol) Absent, Sparse, Normal, More Than Normal

Leaf:

Normal

Normal

Stem:

Normal

Normal

Calyx Lobe: (normal is absent)

Normal

Normal

*9. FLOWER:

Petals: Cream, Yellow

Cream

Cream

Pollen: Cream, Yellow

Cream

Cream

Petal Spot: Present, Absent Absent Absent

*10. SEED:

Seed Index:

(g/100 seed, fuzzy basis) 9.33 8.68

Lint Index:

(g lint/100 seeds) 7.12 5.99

*11. BOLL:

Lint Percent:

 Picked Pulled

OR

Gin Turnout:

X Picked Stripped 39.19 36.58

Number of Seeds per Boll 32.1 29.5

Grams Seed Cotton per Boll 5.6 4.7

Number of Locules per Boll 4-5 4-5

Boll Type:

(Stormproof, Storm Resistant, Open) Open Open

12. FIBER PROPERTIES:

Specify Method (HVI or other): HVI

* Length: (inches, 2.5% SL) 1.159 1.128

* Uniformity: (%) 83.57 82.67

* Strength, T1 (g/tex) 32.35 30.97

* Elongation, E1 (%) 12.58 13.70

* Micronaire: 4.44 4.30

Fineness (Source) NT NT

Yarn Tenacity: (cN/tex, 27 tex) NT NT

Yarn Strength: (lbs. 22's) NT NT

13. DISEASES: (NT = Not Tested, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant)

NT *Alternaria macrospora*

S *Fusarium Wilt*

NT *Anthracnose*

NT *Phymatotrichum Root Rot*

NT *Ascochyta Blight*

NT *Pythium* (specify species)

NT *Bacterial Blight* (Race 1)

NT *Rhizoctonia solani*

☐ NT ☐ Bacterial Blight (Race 2)

☐ NT ☐ Southwestern Cotton Rust

☐ NT ☐ Bacterial Blight (Race ☐)

☐ NT ☐ Thielaviopsis basicola

200500274

13. DISEASES : (continued)

☐ NT ☐ Diplodia Boll Rot

☐ NT ☐ Verticillium Wilt

☐ Other (specify) ☐

14. NEMATODES, INSECTS AND PESTS: (NT = Not Tested, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant)

☐ MR ☐ Root-Knot Nematode

☐ MR ☐ Reniform Nematode

☐ NT ☐ Boll Weevil

☐ NT ☐ Grasshopper (specify species): ☐

☐ NT ☐ Bollworm

☐ NT ☐ Lygus (specify species): ☐

☐ NT ☐ Cotton Aphid

☐ NT ☐ Pink Bollworm

☐ NT ☐ Cotton Fleahopper

☐ NT ☐ Spider Mite (specify species): ☐

☐ NT ☐ Cotton Leafworm

☐ NT ☐ Stink Bug (specify species): ☐

☐ NT ☐ Cutworm (specify species): ☐

☐ NT ☐ Thrips (specify species): ☐

☐ NT ☐ Fall Armyworm

☐ NT ☐ Tobacco Bud Worm

☐ Other (specify): ☐

15. COMMENTS: Present any additional information that cannot adequately be described in 1 through 13 which significantly distinguishes your variety.

03X179R contains a proprietary gene, patented by the Monsanto Company and licensed to D&PL. This gene encodes a protein providing resistance to the herbicide glyphosate (ROUNDUP®).

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) D&PL TECHNOLOGY HOLDING COMPANY, LLC.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 03X179R	3. VARIETY NAME '06CX2I2R'
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) P.O. BOX 157 SCOTT, MISSISSIPPI 38772	5. TELEPHONE (Include area code) 662.742.4141	6. FAX (Include area code) 662.742.3182
7. PVPO NUMBER 200500274		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
---	-----------------------------

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
---	-----------------------------

10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?
YES ☐ NO ☐ If no, give name of countryb. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?
☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (If needed, use the reverse for extra space):

03X179R contains a proprietary gene, patented by the Monsanto Company and licensed to D&PL, which encodes a protein which provides tolerance to glyphosate herbicide in cotton cultivars.**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

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